

LAND APPLICATION OF BIOSOLIDS
SILVER CREEK ORCHARDS

NE11 (FIELDS 1 – 19)
NELSON COUNTY, VIRGINIA
DECEMBER 2013

MAPPED

OCT 05 2015

By: _____

DEQ Valley

MAR 31 2015

To: _____
File: _____

April 8, 2014

Mr. Keith Showman
Department of Environmental Quality
Valley Regional Office
P O Box 3000
Harrisonburg, VA 22801

Dear Mr. Showman:

Transmitted herein for your consideration is land application site for Silver Creek Orchards (designated as NE 11, fields 1-19), located in Nelson County, Virginia. This submission contains strictly site specific information. Please refer to the operations and maintenance manual submitted under separate cover for all non-site specific information.

Do not hesitate to contact me at (804) 443-2170 should you have any questions or require additional information.

Sincerely,



Carolanne M. Whiteside
Technical Services Coordinator

SYNAGRO

FIELD SUMMARY SHEET

Silver Creek Orchards

NE 11

SYNAGRO FIELD #	GROSS ACRES	NET ACRES	FSA TRACT #	FIELD TYPE	OWNER
11-01	69.8	65.0		Agriculture	Silver Creek Orchards, Inc.
11-02	3.8	3.8		Agriculture	Silver Creek Orchards, Inc.
11-03	12.6	12.6		Agriculture	Silver Creek Orchards, Inc.
11-04	40.0	40.0		Agriculture	William M. Flippin
11-05	52.7	52.7		Agriculture	William M. Flippin
11-06	7.5	7.1		Agriculture	William M. Flippin
11-07	69.5	67.4		Agriculture	Trustee for William Massie
11-08	27.8	26.8		Agriculture	Trustee for William Massie
11-09	38.2	37.5		Agriculture	Silver Creek Orchards, Inc.
					William M. Flippin
11-10	12.3	11.1		Agriculture	Silver Creek Orchards, Inc.
					William M. Flippin
11-11	2.4	2.4		Agriculture	Silver Creek Orchards, Inc.
11-12	31.5	30.9		Agriculture	William M. Flippin
11-13	15.8	13.4		Agriculture	William M. Flippin
11-14	16.4	16.3		Agriculture	William M. Flippin
11-15	17.6	17.6		Agriculture	William M. Flippin
11-16	7.7	7.7		Agriculture	William M. Flippin
11-17	66.8	64.7		Agriculture	Silver Creek Orchards, Inc.
TOTAL	492.4	477.0			

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on Dec 3, 2012 between William M. Flippin referred to here as "Landowner", and Synagro, referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in Nelson County, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges

Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
<u>41-A-39</u>			
<u>41-A-39A</u>			
<u>41-A-39B</u>			
<u>41-A-39D</u>			
<u>41-A-45</u>			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:

- ☒ The Landowner is the sole owner of the properties identified herein.
☐ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No

William M. Flippin
Landowner - Printed Name, Title

William M. Flippin
Signature

3679 Pharsalia Rd Tyron, VA 22976
Mailing Address

Permittee:

Synagro, the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

D. Steve McMahon
Permittee - Authorized Representative
Printed Name

D. Steve McMahon
Signature

10647 Tidewater Trail
Champlain, VA 22438
Mailing Address

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Synagro County or City: Nelson
Landowner: William M. Flippin

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

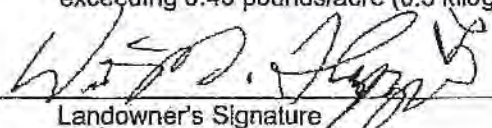
I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days,
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).


Landowner's Signature

12/3/12
Date

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

NE 11

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on Dec 3, 2012 between Silver Creek Orchard referred to here as "Landowner", and Synagro, referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in Nelson County, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges

Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
41-2-6			
41-A-37			
41-A-38			
41-A-40			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:

- ☐ The Landowner is the sole owner of the properties identified herein.
☒ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No

<u>Ruth F. Saunders T/A</u>	<u>Resident</u>	<u>3679 Pharsalia Rd Tyro, VA 22976</u>
<u>Silver Creek Orchard, Inc.</u>	<u>Ruth F. Saunders</u>	
Landowner - Printed Name, Title	Signature	Mailing Address

Permittee:

Synagro, the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

<u>D. Steve McMahon</u>	<u>D. Steve McMahon</u>	<u>10647 Tidewater Tr.</u>
<u>Champlain, VA 22438</u>		
Permittee - Authorized Representative Printed Name	Signature	Mailing Address

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Synagro County or City: Nelson
Landowner: Silver Creek Orchards, Inc.

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
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4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days,
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6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Rud J. Sol T/A Silver Creek Orchards, Inc

Landowner's Signature

12/3/12

Date

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on Dec 3, 2012 between William Massie referred to here as "Landowner", and Synagro, referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in Nelson County, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
41-2-7 (125.12A)			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:

- ☒ The Landowner is the sole owner of the properties identified herein.
☐ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

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<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No

<u>William MASSIE</u>	<u>William Massie</u>	<u>312 Squirrel Path, Charlottesville, VA 22901</u>
Landowner - Printed Name, Title	Signature	Mailing Address

Permittee:

Synagro, the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

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☒ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

<u>D. Steve McMahon</u>	<u>D. Steve McMahon</u>	<u>10647 Tidewater Tr.</u>
Permittee - Authorized Representative	Signature	Mailing Address
Printed Name		<u>Champlain, VA</u>
		<u>22438</u>

Permittee: SynagroCounty or City: NELSONLandowner: William Massie**Landowner Site Management Requirements:**

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

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6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

William Massie12-06-2012

Landowner's Signature

Date

TAX ID LANDOWNER IDENTIFICATION SHEET

Landowner	Field Number	Tax ID
Silver Creek Orchards, Inc.	11-01	41-A-37
Silver Creek Orchards, Inc.	11-02	41-A-38
Silver Creek Orchards, Inc.	11-03	41-A-38
William M. Flippin	11-04	41-A-39A, 39
William M. Flippin	11-05	41-A-39
William M. Flippin	11-06	41-A-39B, 39D
Trustee for William Massie	11-07	41-2-7
Trustee for William Massie	11-08	41-2-7
Silver Creek Orchards, Inc.	11-09	41-2-6
William M. Flippin		41-A-45
Silver Creek Orchards, Inc.	11-10	41-2-6
William M. Flippin		41-A-45
Silver Creek Orchards, Inc.	11-11	41-A-46
William M. Flippin	11-12	41-A-45
William M. Flippin	11-13	41-A-45
William M. Flippin	11-14	41-A-45
William M. Flippin	11-15	41-A-45
William M. Flippin	11-16	41-A-45
Silver Creek Orchards, Inc.	11-17	41-A-46

Field Number	Latitude (North)	Longitude (West)
11-01	37.813°	-79.005°
11-02	37.822°	-79.013°
11-03	37.819°	-79.012°
11-04	37.818°	-79.007°
11-05	37.816°	-79.009°
11-06	37.812°	-79.003°
11-07	37.812°	-79.013°
11-08	37.810°	-79.017°
11-09	37.806°	-79.018°
11-10	37.808°	-79.021°
11-11	37.802°	-79.026°
11-12	37.802°	-79.019°
11-13	37.802°	-79.016°
11-14	37.801°	-79.014°
11-15	37.799°	-79.015°
11-16	37.799°	-79.011°
11-17	37.798°	-79.021°

Haul Route:

The Location maps in conjunction with the above latitude and longitude coordinates are a route planning tool meant to be a guide to indicate suggested haul routes for various preferences: to include but not limited to all federal, state, and local granted STAA access routes.

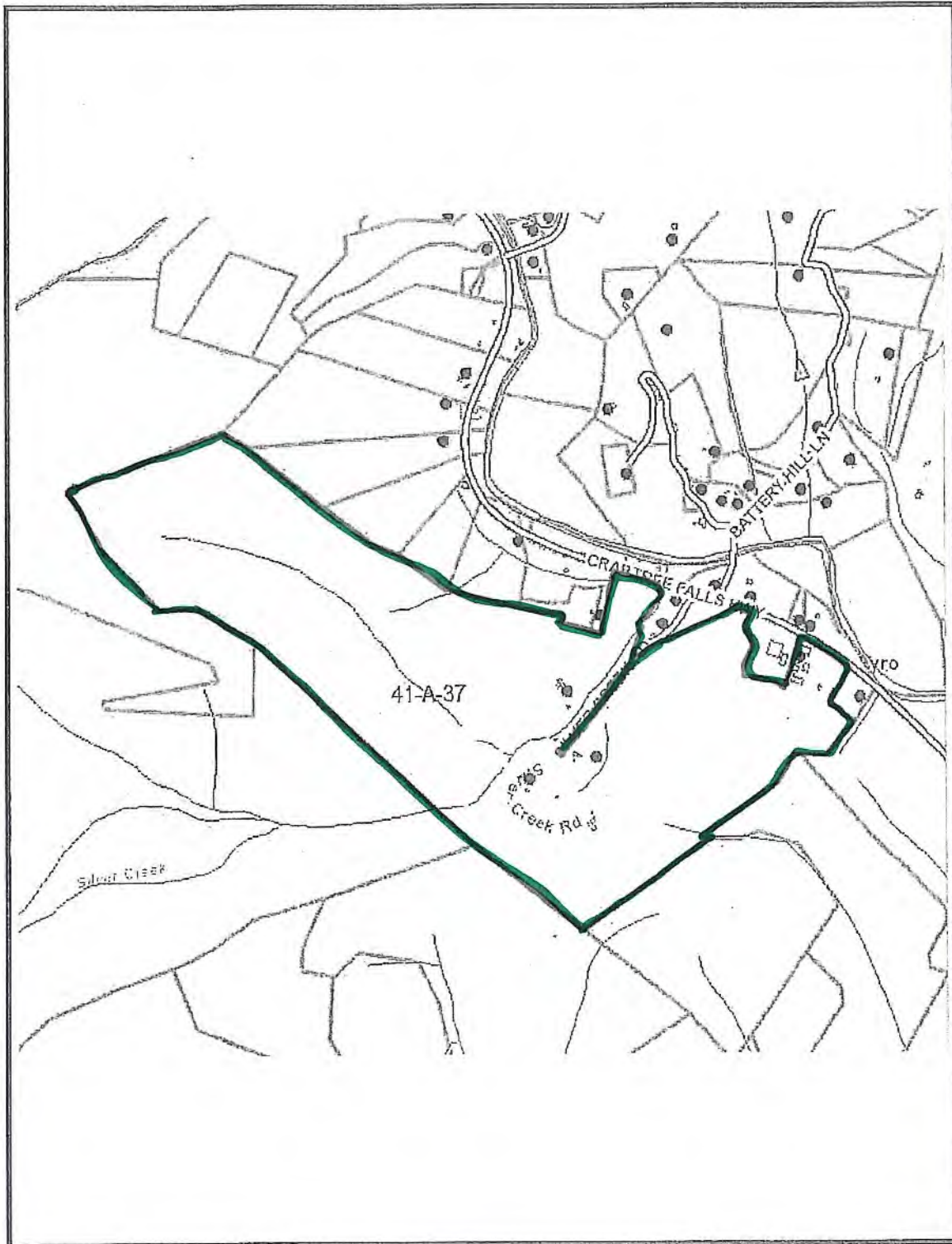
Revised 03-17-2016

SYNAGRO

Silver Creek Orchard

NE 11

Field 1



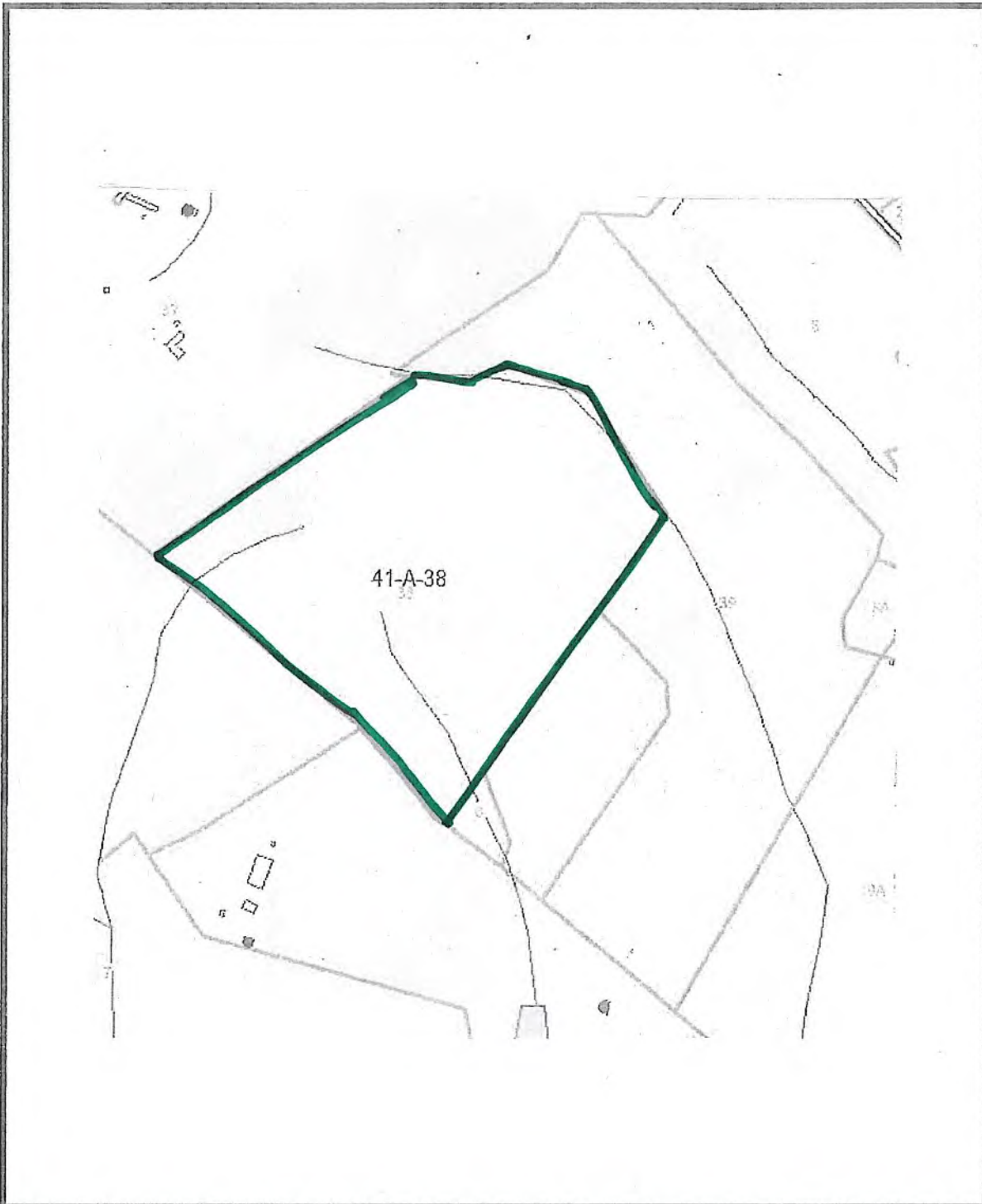
TAX MAP

SYNAGRO

Silver Creek Orchard

NE 11

Fields 3-4



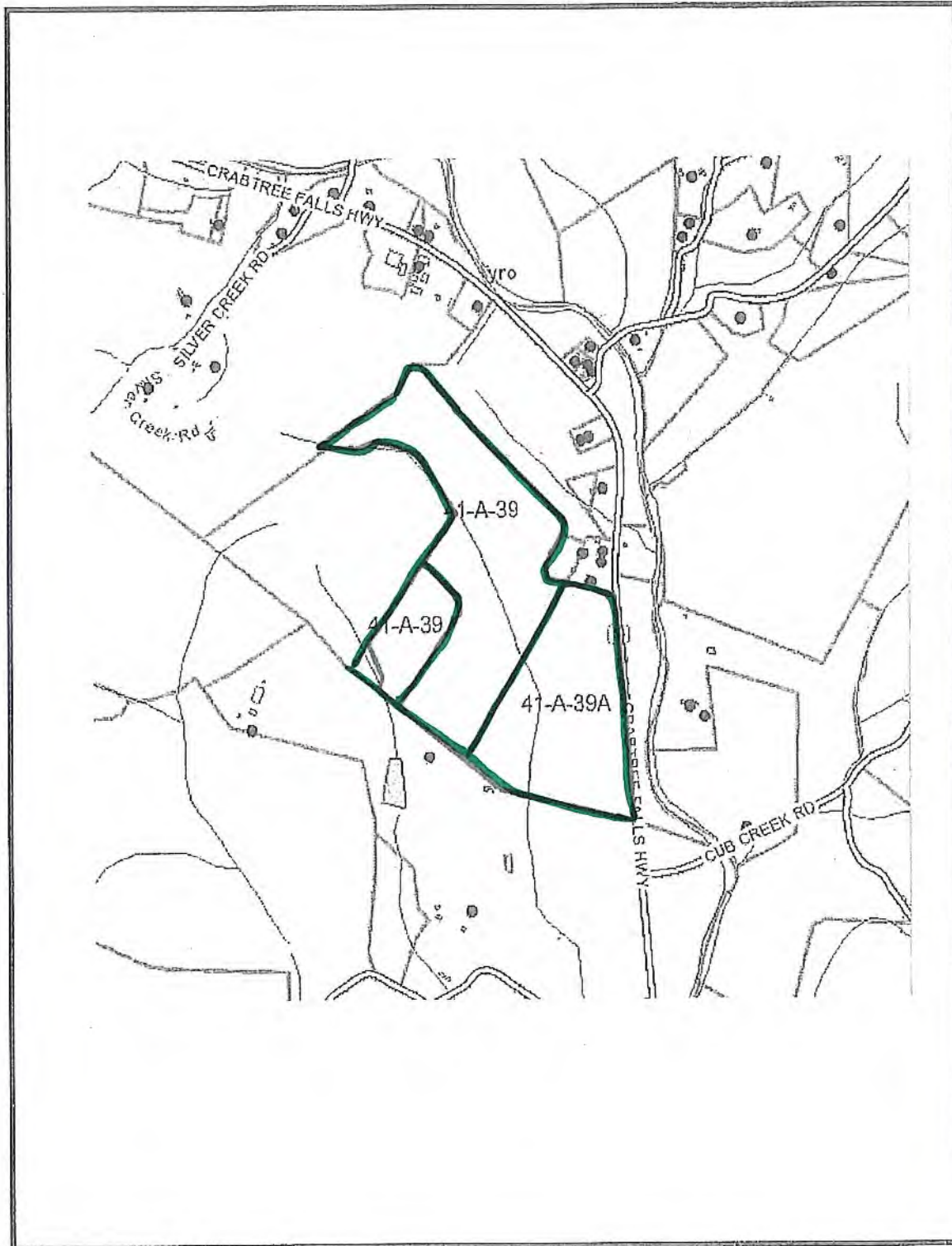
TAX MAP

SYNAGRO

Silver Creek Orchard

NE 11

Fields 4-5



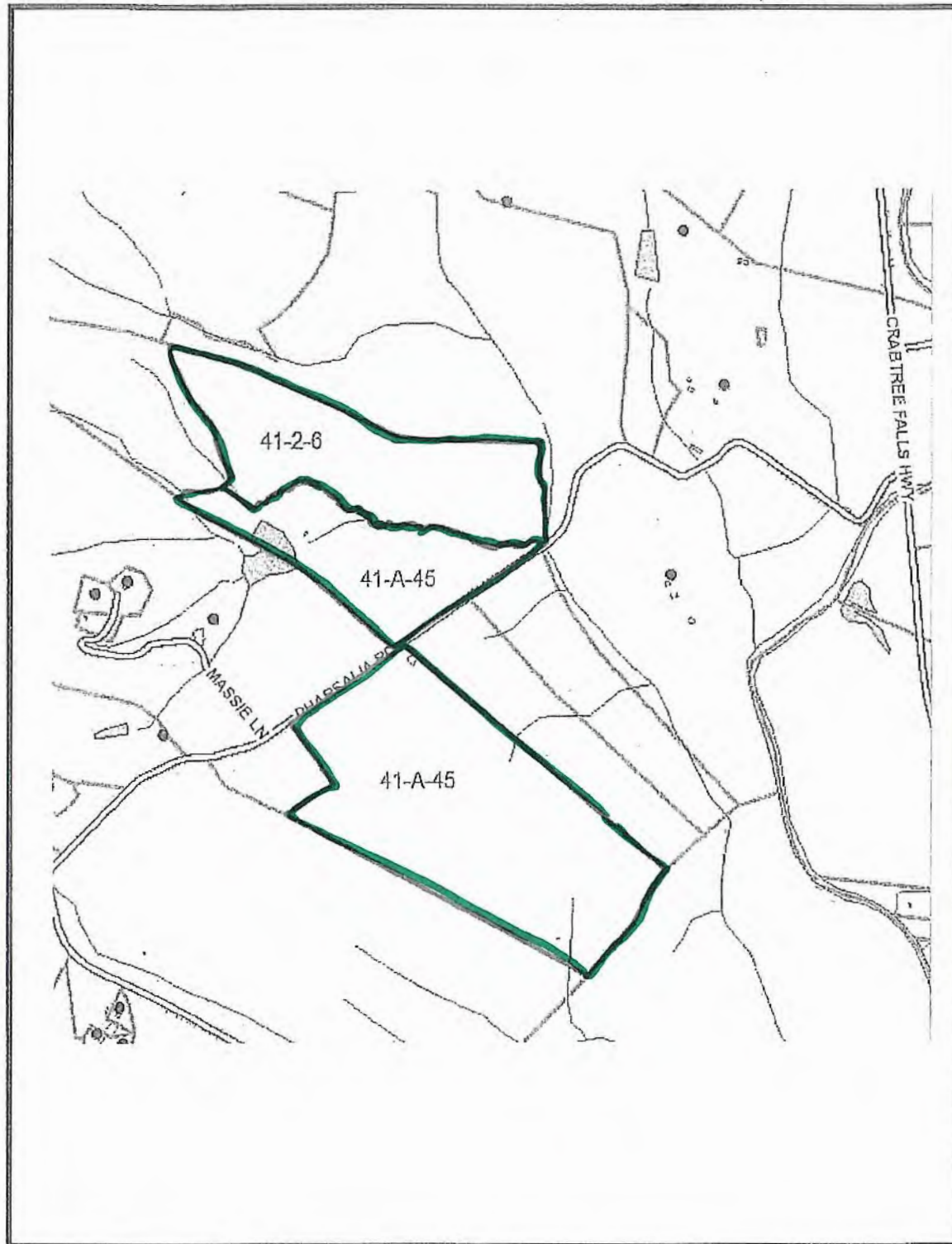
TAX MAP

SYNAGRO

Silver Creek Orchard

NE 11

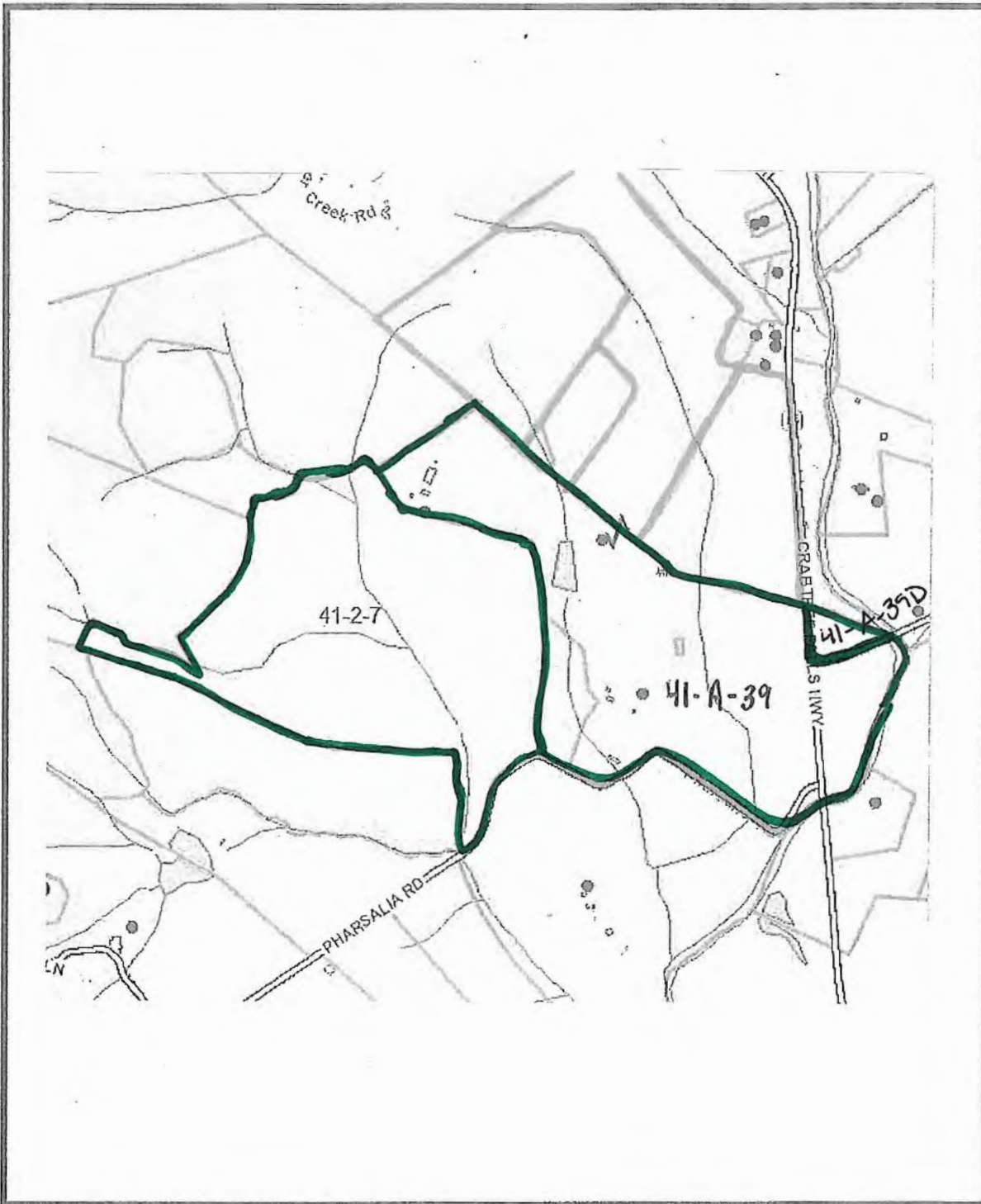
Fields 9-10, 12-16



TAX MAP

SYNAGRO

Silver Creek Orchard
NE 11
Fields 1,,7,8



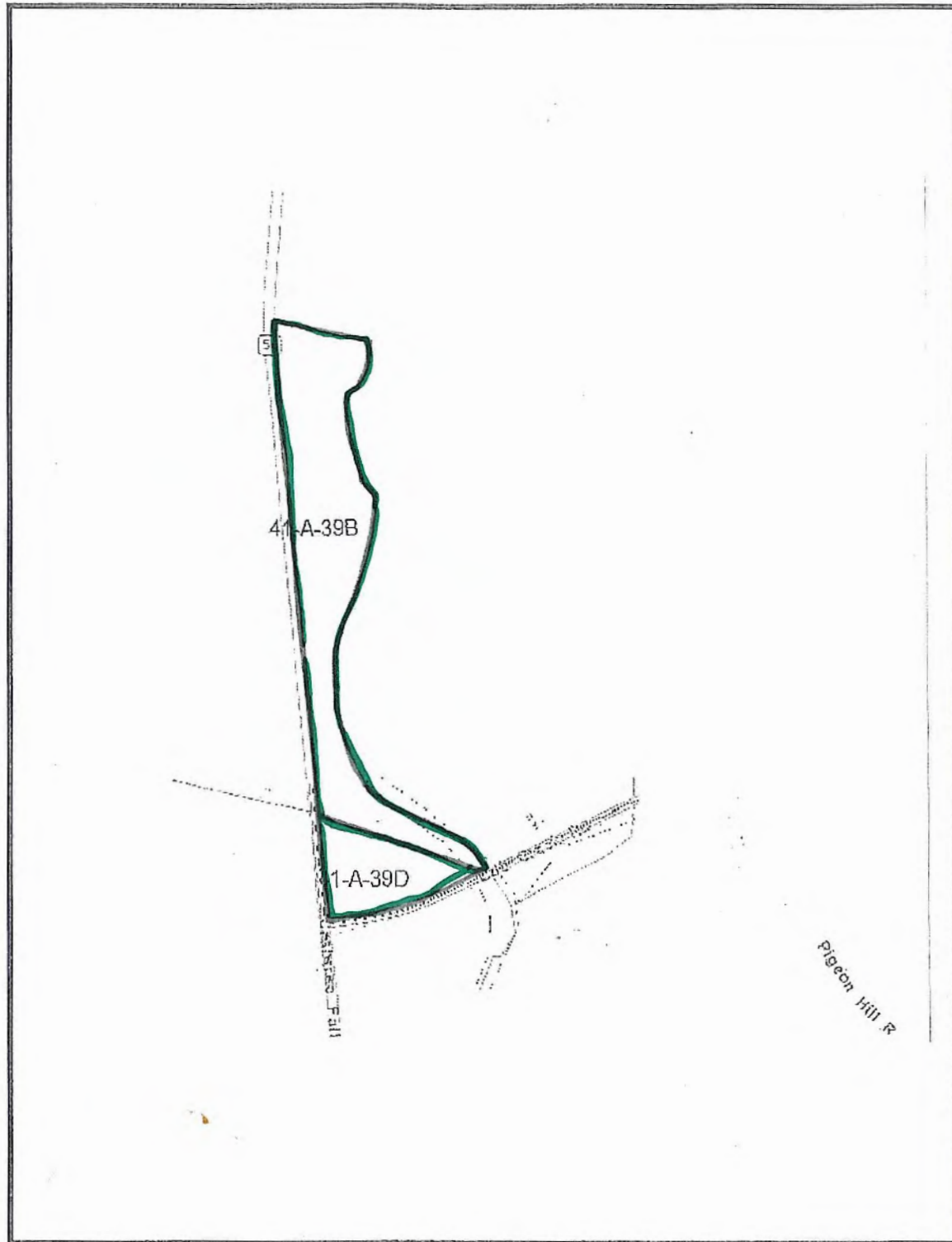
TAX MAP

SYNAGRO

Silver Creek Orchard

NE 11

Field 6



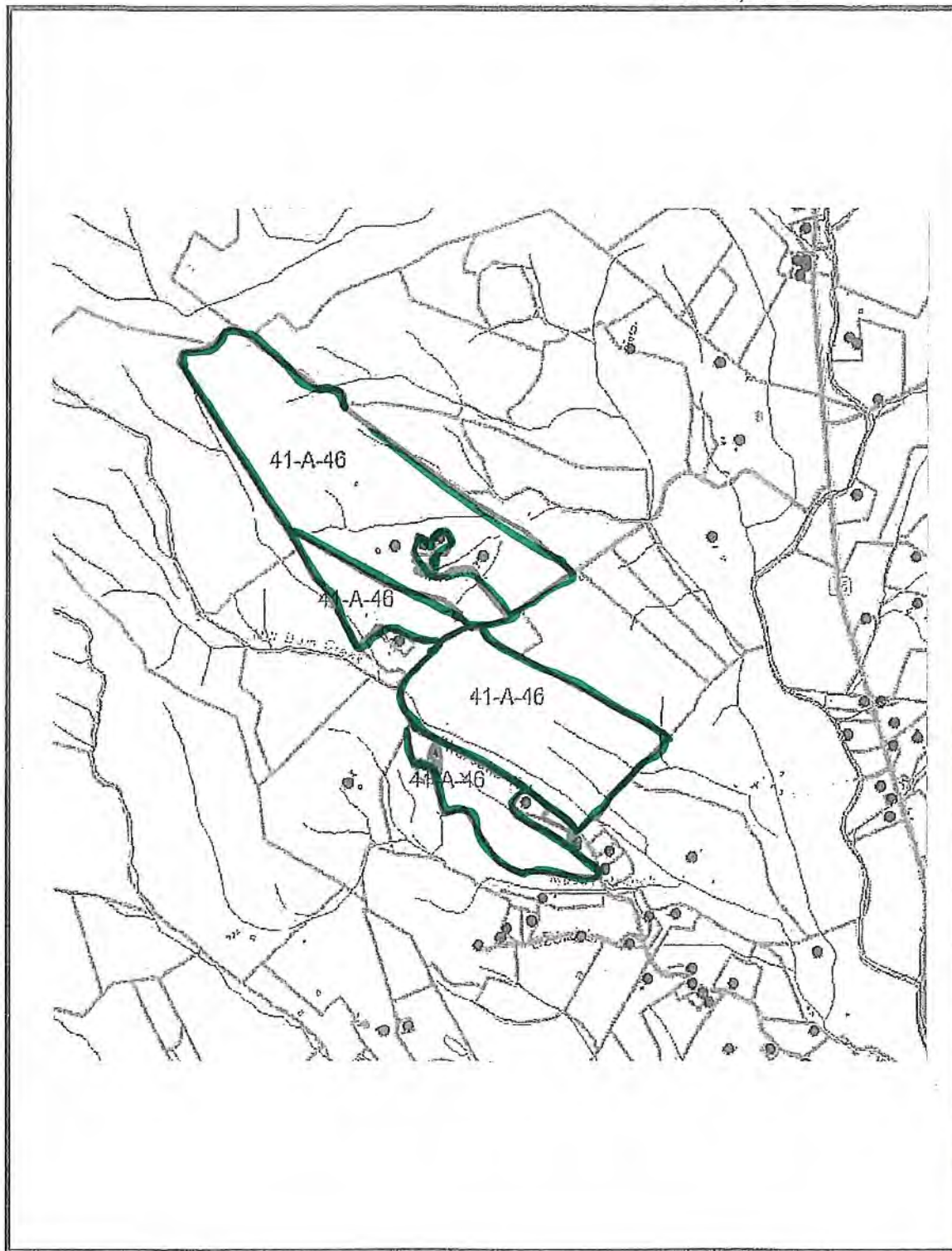
TAX MAP

SYNAGRO

Silver Creek Orchard

NE 11

Fields 11, 17-19



TAX MAP

MAP LEGEND



House/Dwelling with a well -200' buffer-dwelling (with conditions for reduction); 100' buffer-well



Rock Outcrop – 25' limestone 50'



Well – 100'



Lake/Pond – 35' w/vegetative buffer; 100' without vegetative buffer.



Slope which exceeds 15%



Non-application area – buffers such as streams, house, wells, etc.



Intermittent Stream - 35' w/vegetative buffer; 100' without vegetative buffer.



Stream/River - 35' w/vegetative buffer; 100' without vegetative buffer.



Agricultural/Drainage Ditch – 10'



Field boundary

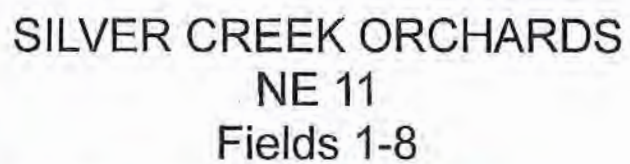


Property Line – (Standard 100' Buffer, unless waiver issued)



“PAS” – Publicly Accessible Site – Standard 200' buffer & possible 400' for odor sensitive receptors

Revised: March 2016



SOIL MAP

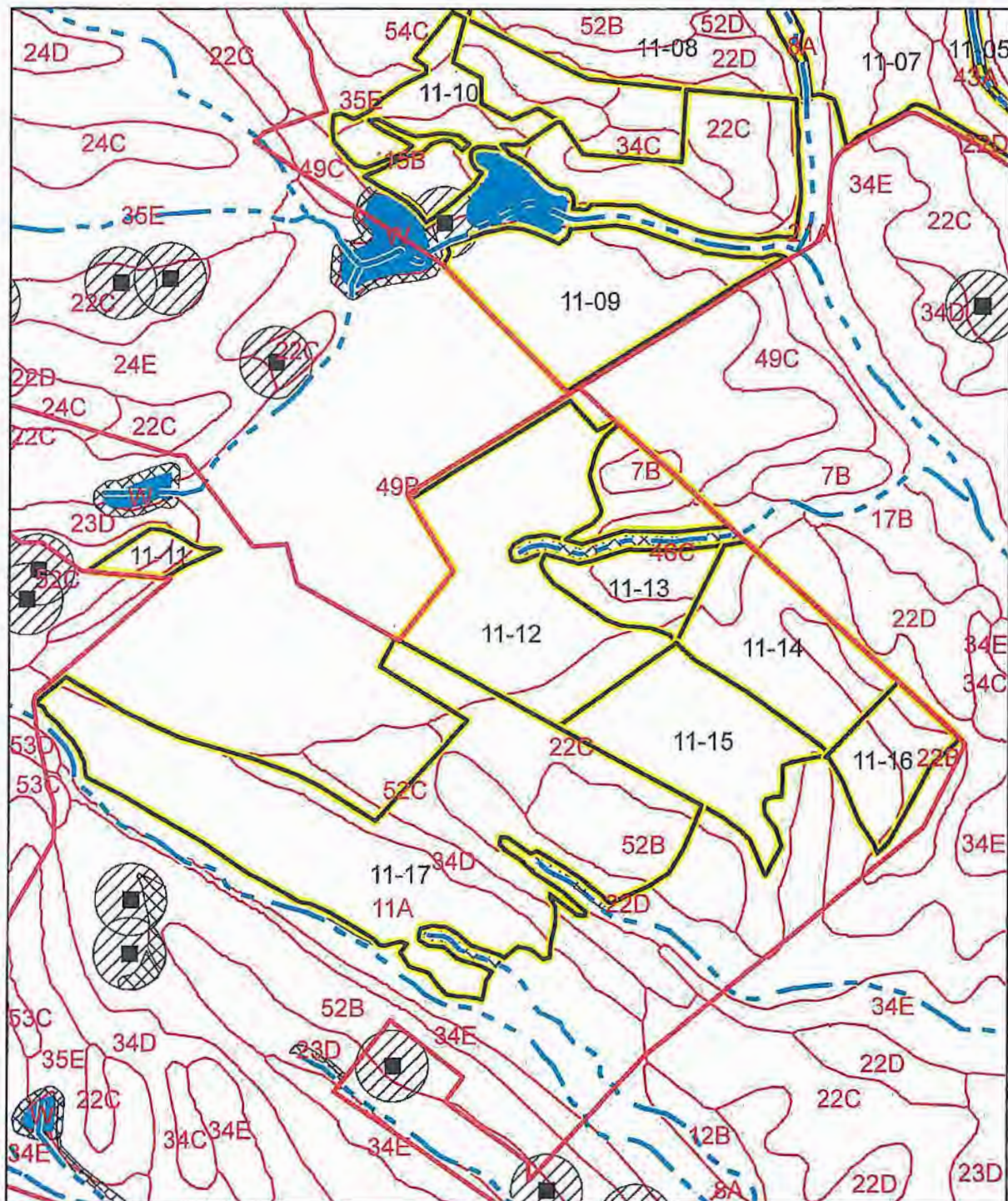
1:10,000

REVISED 2/24/16

 Environmentally Sensitive Areas

SYNAGRO

SILVER CREEK ORCHARDS NE 11 Fields 9-17



1 inch = 833.333333 feet

SOIL MAP

1:10,000

REVISED 3/24/16

SYNAGRO

SILVER CREEK ORCHARDS
NE 11
Fields 1-8

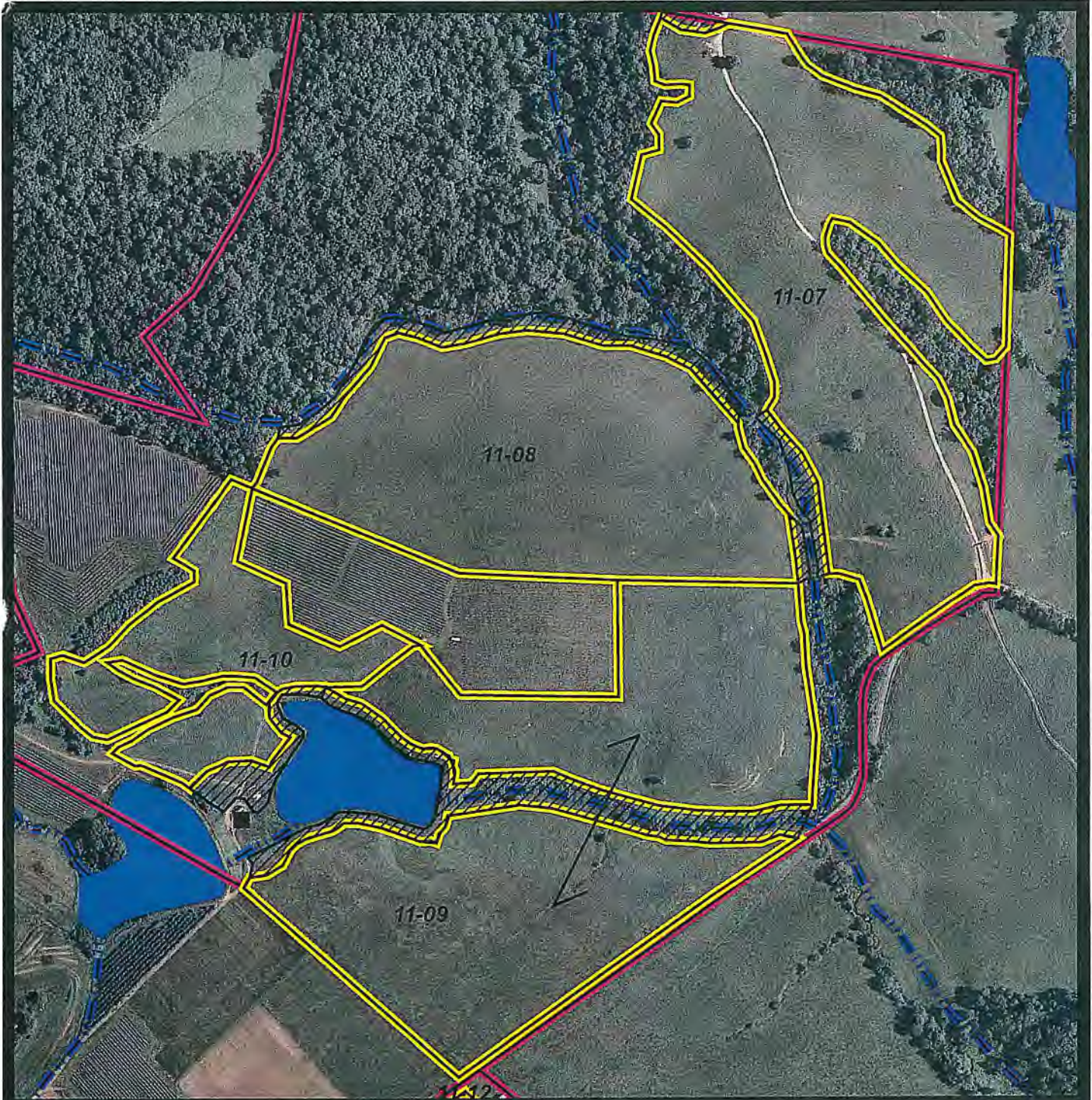


1 inch = 833.333333 feet

AERIAL MAP

1:10,000

REVISED 2/24/16



SCALE 1:6,000

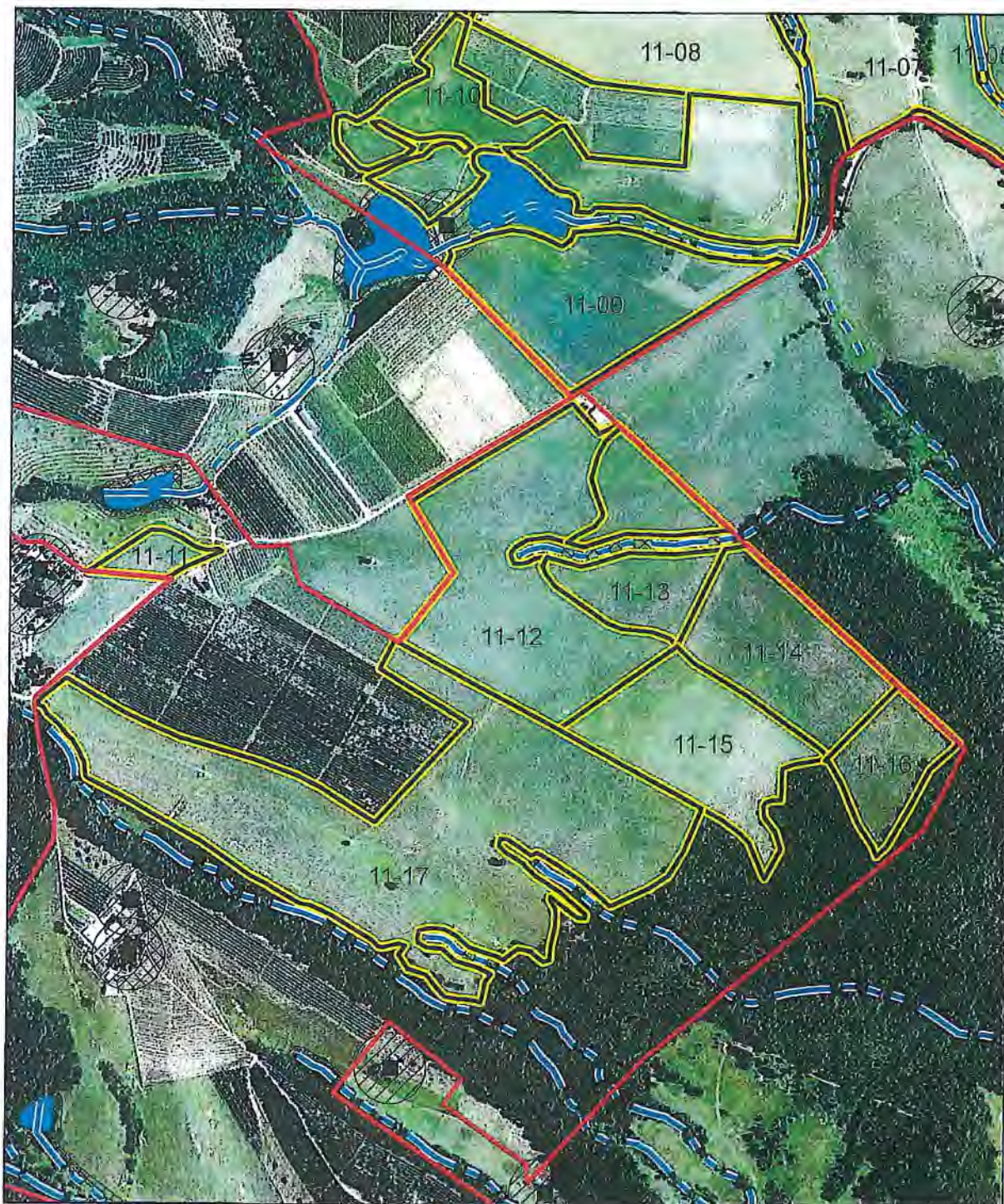
REVISED 04/02/2014

AERIAL MAP

□
N
□

SYNAGRO

SILVER CREEK ORCHARDS
NE 11
Fields 9-17



1 inch = 833.333333 feet

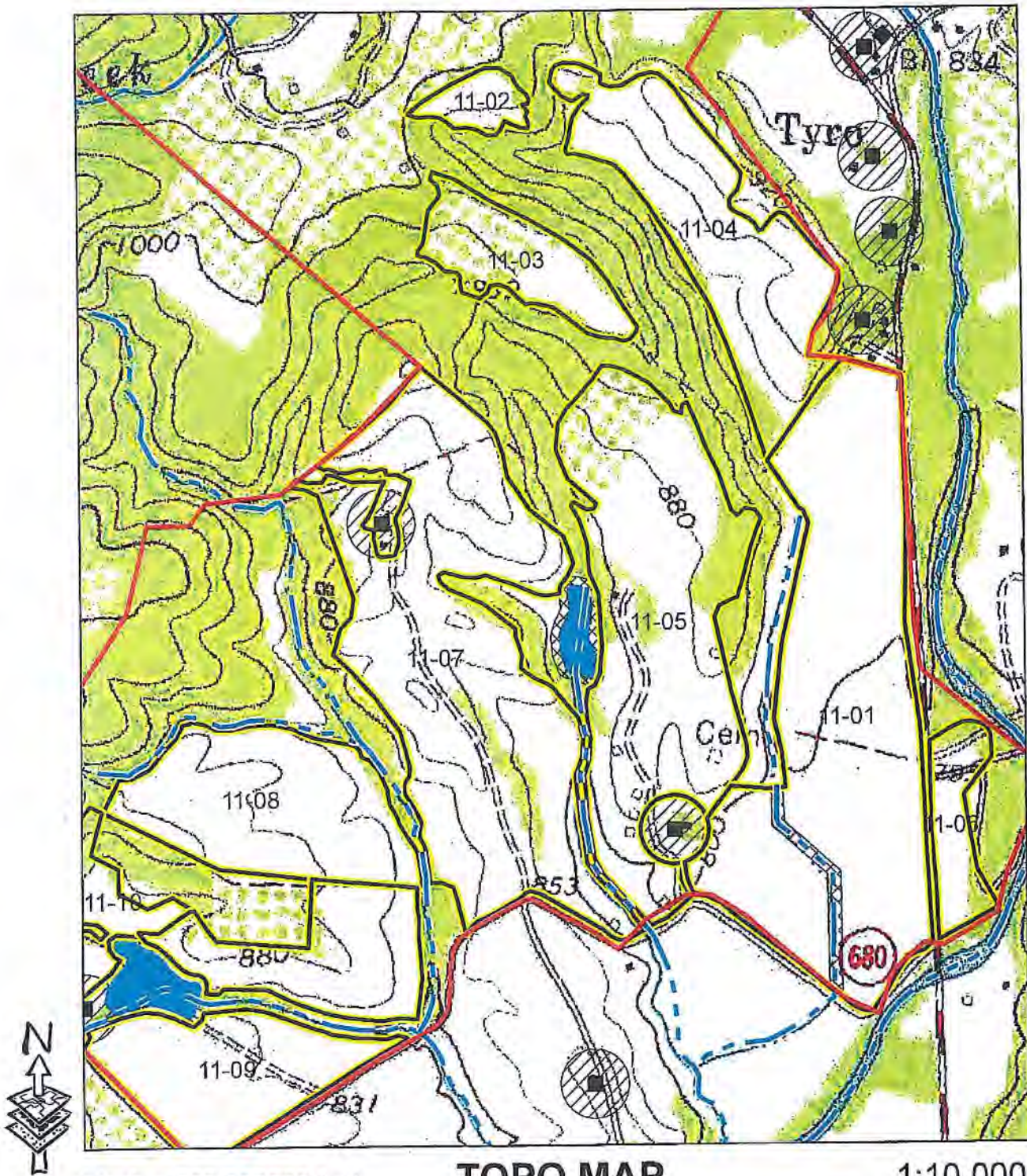
AERIAL MAP

1:10,000

REVISED 3/24/16

SYNAGRO

SILVER CREEK ORCHARDS NE 11 Fields 1-8



1 inch = 833.333333 feet

TOPO MAP

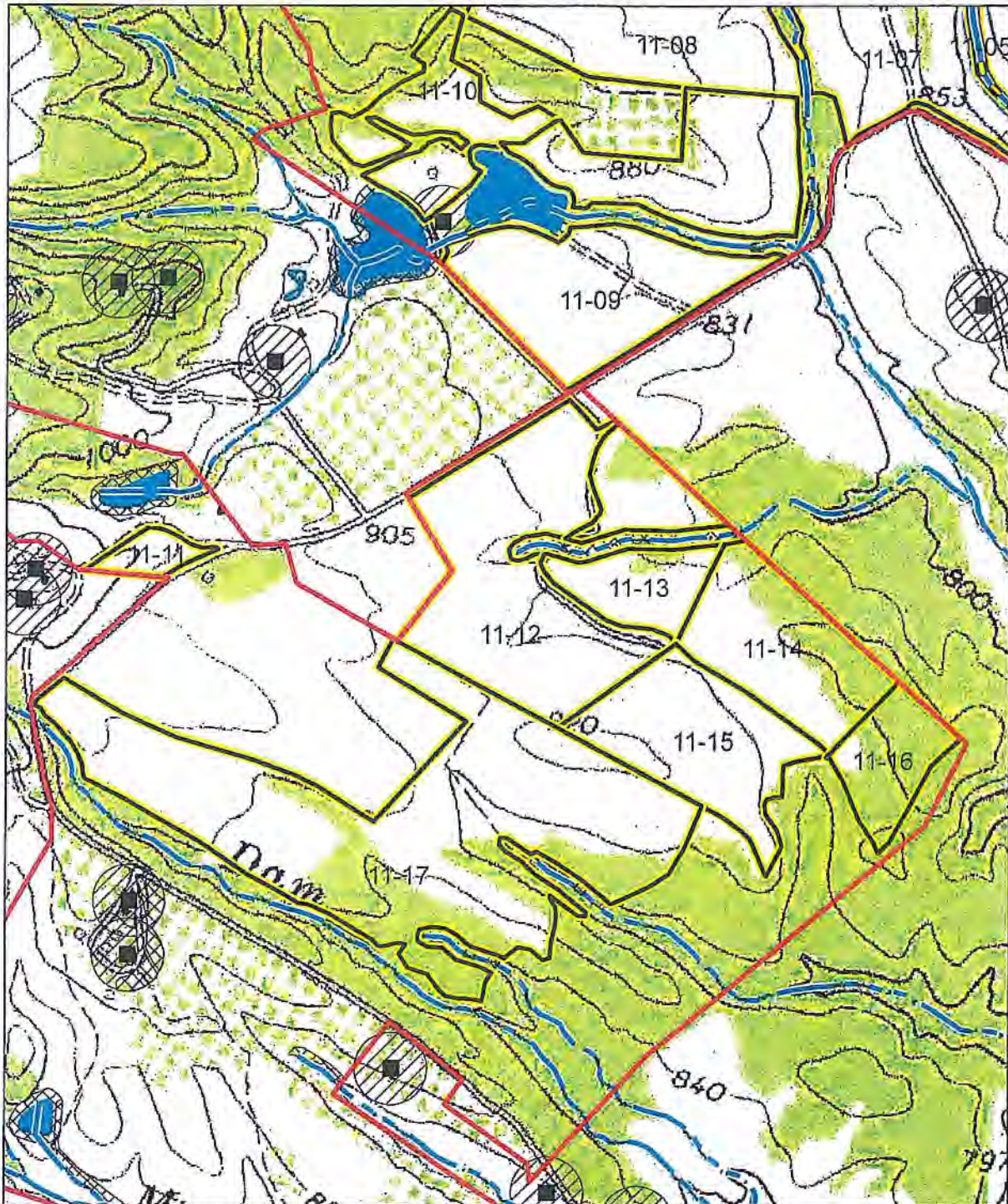
1:10,000

REVISED 2/24/16

Field #	Gross Acres	Field #	Gross Acres
11-01	69.8	11-05	52.7
11-02	3.8	11-06	7.5
11-03	12.6	11-07	69.5
11-04	40.0	11-08	27.8

SYNAGRO

SILVER CREEK ORCHARDS
NE 11
Fields 9-17



1 inch = 833.333333 feet

TOPO MAP

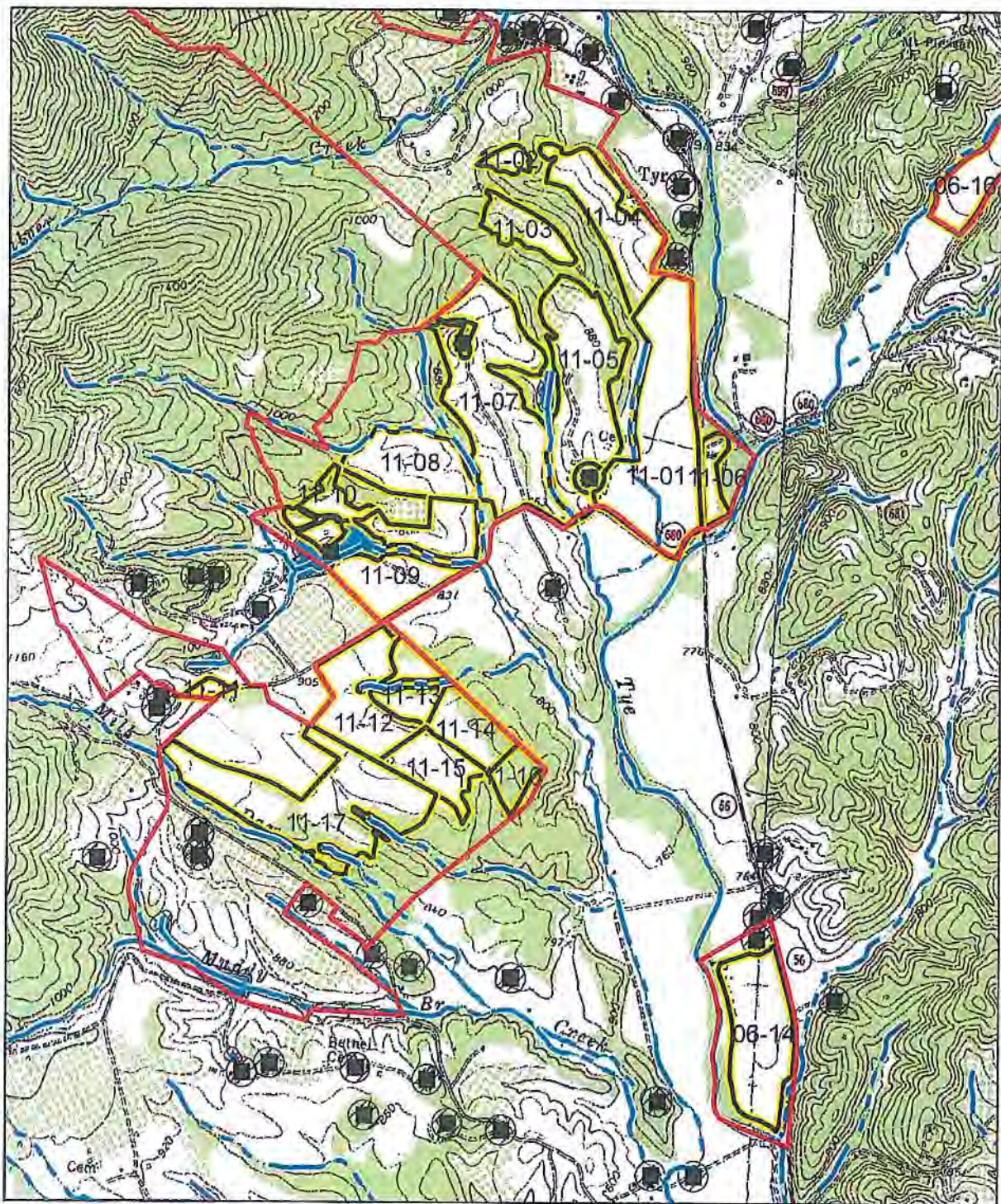
1:10,000

REVISED 3/24/16

Field #	Gross Acres	Field #	Gross Acres	Field #	Gross Acres
NE 11-9	38.2	NE 11-12	31.5	NE 11-15	17.6
NE 11-10	12.3	NE 11-13	15.8	NE 11-16	7.7
NE 11-11	2.4	NE 11-14	16.4	NE 11-17	66.8

SYNAGRO

SILVER CREEK ORCHARDS
NE 11
Fields 9-17



1 inch = 2,000 feet

TOPO MAP

1:24,000

REVISED 3/16/16



LOCATION MAP

